Milling Science and Management
Bachelor of Science in Milling Science and Management
Department of Grain Science and Industry

"What I like the most about majoring in milling science is the classroom experience. Small class sizes and hands-on activities provide a great environment and help milling students get to know each other. I'm learning about equipment I will use in the field as well as techniques and practices that will help me in my career."

Cory Thyfault
Hays, Kansas

Milling science graduates have a lot to offer. The curriculum gives students a broad, comprehensive university education that prepares them to make complicated management decisions required in the milling and allied industries. Graduates find stable employment, high salaries, and opportunities for rapid career advancement.

Possible Careers
Miller, mill engineer, production manager, production trainee, quality control specialist, commodity trader, system designer

Potential Employers
Milling companies, globally integrated food companies, government agencies, equipment manufacturers, grain marketing and inspection agencies

Advantages

Employment in a stable industry
Because milling is one of the most basic industries, demand for flour and grain products tend to remain constant.

Plenty of opportunities
K-State offers the only bachelor's degree in milling in the world. That means K-State is a major supplier for graduates entering the industry.

With a wide range of options, personal interests and personality determine the kinds of jobs milling graduates select. They can choose production positions such as plant manager, plant engineer, and plant superintendent. Or they may wish to enter research and development, quality control, and technical sales. Some graduates prefer careers in purchasing, risk management, marketing, sales, and commodities trading. Positions in milling equipment manufacturing range from engineering and research to sales.

Besides the flour milling industry, graduates work in spice and specialty milling and in numerous other jobs in the food industry. The range of careers is continually expanding.

Industry support
The undergraduate program in milling science and management began in 1910 to address the growing needs of the modern milling industry. During the 1950s and 60s, the program received major funding to build specialized teaching and research facilities. Industry continues to support this program.

Scholarships
Because of this extensive support, the Department of Grain Science and Industry awards more than $200,000 in scholarships to students majoring in milling, feed, and bakery science. About 50 percent of milling students receive scholarships that range from $750 to $5,000 annually.

Internships and summer jobs
Many undergraduate students intern with milling companies to gain experience before graduation and earn money for college. Plentiful internships and summer jobs provide students with a closer look at the milling industry and experience that often leads to employment after graduation.

Job placement
The recently revised curriculum gives students the education they need to meet the rapidly evolving challenges of the industry. As a result, the number of positions available for graduates is greater than the supply. It is not unusual for students to have multiple job offers when they graduate.

High salaries
Salaries for milling science graduates are consistently among the highest for college graduates. Average starting salaries are much higher than the university average.

International reputation
K-State's Department of Grain Science and Industry has a strong international reputation, attracting students from all over the world. Major companies always make it a recruiting stop.
Academics
Degree programs in the Department of Grain Science and Industry are committed to a high educational quality and hands-on learning. The milling science and management program requires a significant number of science and technology courses.

Options
Students majoring in milling science have two options: operations and chemistry. Those who select operations are exposed to high technology milling courses to prepare them to manage such operations. The chemistry option emphasizes biochemistry, organic chemistry, physical chemistry, and chemical analysis courses that prepare graduates to assume research positions.

Dual major and minor
Students can pursue a dual major by completing requirements in two separate B.S. programs. Minors provide students an opportunity to emphasize an area outside the major curriculum. A minor requires completion of at least 15 designated credit hours of required course work outside the major. Courses forming a minor may be used to satisfy general requirements of a major curriculum. Milling science and management students pursue minor degrees in agribusiness, agricultural economics, chemistry, food science, and leadership studies.

Transfer Students
Students interested in transferring into milling science after two years at a community college should contact the faculty to learn which courses transfer to K-State.

Grain Science Minors
The Department of Grain Science and Industry offers five minors: bakery science, cereal chemistry, grain handling operations, pet food science and feed science. Minors can be combined with any major taken a K-State. A minor from the Department of Grain Science and Industry increases understanding of the needs of the specialized agriculture industry.

Student Activities
Activities in the Department of Grain Science and Industry allow students to develop leadership skills, create friendships, and explore new ideas. The Milling Science Club provides an opportunity to join others with similar interests for professional activities. Club activities include milling flour and making pancake mix to raise money for club activities. The club provides travel support for members to attend annual milling conferences and trade shows.

Facilities
Facilities are unique. Shellenberger Hall houses a commercial flour mill, a feed manufacturing plant, and a pilot bakery. The Hal Ross flour mill, a state-of-the-art facility, provides students a chance to work in the mill to learn about the milling process. Facilities also include numerous milling laboratories with equipment from all over the world. Students take courses using the department's milling, baking, and physical dough-testing labs.

“Milling advisors truly believe that effective advising is a key component to students' academic success, lifelong learning, and personal development.”

Hulya Dogan Ph. D.
Professor, Milling Science
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This publication is very helpful for students and faculty seeking information about the Grain Science and Industry Department at Kansas State University. It provides insights into the curriculum, options, and activities offered by the department. The contact information section is also very useful for students and faculty who may need to reach out for further information or assistance.